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Application Serial Number:	10/044315
Source:	01/6
Date Processed by STIC:	1/27/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- 3. Hand Carry directly to:
  - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

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Revised 01/29/2002





## Raw Sequence Listing Error Summary

<b>ERRO</b>	R DE	<b>TEC</b>	ED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/044,315

AI II	I: NEW RULES CASE	S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	_Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4	_Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5	_Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7	Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
		Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences.
8	_Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
 \	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
<u>ل</u> ه	_Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
1	_Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
2	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
3	Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001



## COPY OF PAPERS ORIGINALLY FILED



OIPE

RAW SEQUENCE LISTING DATE: 01/27/2002 PATENT APPLICATION: US/10/044,315 TIME: 15:23:32

Input Set : A:\ES.txt

Output Set: N:\CRF3\01272002\J044315.raw

```
3 <110> APPLICANT: Boykin, David
                                                                       Does Not Comply
              Tidwell, Richard
      4
                                                                   Corrected Diskette Needer
      5
              Stringfellow, David
              Brock, Kenny
      6
              Stephens, Chad
      7
      8
              Kumar, Arvind
      9
              Wilson, W. David
    10
             Givens, Daniel
             Dykstra, Christine
     11
     13 <120> TITLE OF INVENTION: COMPOUNDS, METHODS AND COMPOSITIONS USEFUL FOR THE TREATMENT
OF BOVINE
              VIRAL DIARRHEA VIRUS (BVDV) INFECTION AND HEPATITIS C VIRUS (HCV) INFECTION
     14
     16 <130> FILE REFERENCE: 5470-333
    18 <140> CURRENT APPLICATION NUMBER: US/16/044,315
    18 <141> CURRENT FILING DATE: 2002-01-11
     18 <160> NUMBER OF SEQ ID NOS: 3
     20 <170> SOFTWARE: PatentIn version 3.1
     22 <210> SEQ ID NO: 1
                                see tem 10 on Eva Lumnay Sheet
     23 <211> LENGTH: 18
     24 <212> TYPE: DNA
     25 <213> ORGANISM: (Primer
     27 <400> SEQUENCE: 1
                                                                               18
     28 ggctagccat gcccttag
     31 <210> SEQ ID NO: 2
     32 <211> LENGTH: 17
     33 <212> TYPE: DNA
     34 <213> ORGANISM( Primer
     36 <400> SEQUENCE:
                                                                               17
     37 ccatgtgcca tgtacag
     40 <210> SEQ ID NO: 3
     41 <211> LENGTH: 22
     42 <212> TYPE: DNA
     43 <213> ORGANISM: Primer
     45 <220> FEATURE:
v}-> 46 <221> name/key: D
     47 <222> LOCATION: (14)..(14)
     48 <223> OTHER INFORMATION: The novel BVD 180 primer was degenerate at the 14th base
(D=G+A+T)
              ) to accommodate differences within the 5' untranslated sequences
     49
              of virus strains used in this research
     53 <400> SEQUENCE: 3
                                                                                22
     54 cctgagtaca gggdagtcgt ca
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/044,315

DATE: 01/27/2002 TIME: 15:23:33

Input Set : A:\ES.txt

Output Set: N:\CRF3\01272002\J044315.raw

 $L:18\ M:270\ C:$  Current Application Number differs, Replaced Current Application No

L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:46 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3